查询LP379PPG1-C0G-03供应商

Cree® P4 LED
Model # LP379PPG1-C0G-03
Data Sheet

120-degree, 7.6 x 7.6 LED lamp in pure-green color with water-transparent lens and stopper

Applications

- Advertising Signs
- Indicators
- Message Boards

Absolute Maximum Ratings (T_A = 25°C)

Items	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	30	mA
Peak Forward Current [Note]	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	132	mW
Operation Temperature	T_{opr}	-40 ~ +100	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	Max. 260°C for 3 sec. max. (3 mm from the base of the epoxy bulb)	

Note: Pulse width ≤0.1 msec, duty ≤1/10.

Typical Electrical & Optical Characteristics (T_A = 25°C)

Characteristics	Symbol	Condition	Unit	Minimum	Typical	Maximum
Forward Voltage	V_F	I_F = 30 mA	V		3.6	4.4
Reverse Current	I_R	V_R = 5 V	µA			100
Dominant Wavelength	λ_D	I_F = 30 mA	nm	515	527	535
Luminous Flux	Φ_V	I_F = 30 mA	mlm	1000	2000	
50% Power Angle	2θ½	I_F = 30 mA	deg		120	

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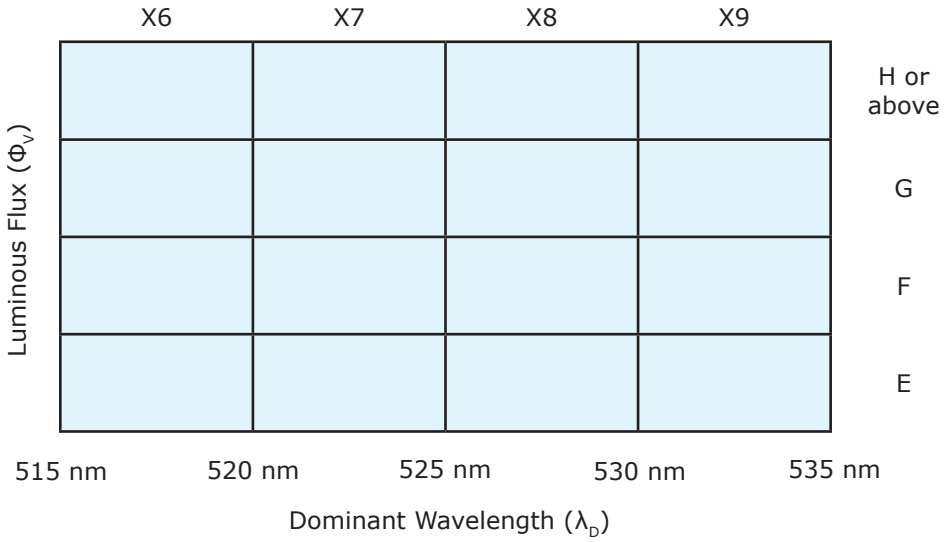
Standard Bins for LP379PPG1-C0G-03 (I_F = 30 mA)

Lamps are sorted to luminous flux (Φ_V), V_F and dominant wavelength (λ_D) bins shown.

Orders for LP379PPG1-C0G-03 may be filled with any or all bins contained as below.

All luminous flux (Φ_V), V_F and dominant wavelength (λ_D) values shown and specified are at I_F = 30 mA.



Rank	E	F	G
Luminous Flux	1000-1800 mlm	1500-2400 mlm	2000-3000 mlm

Rank	V7	V8	V9	V10	V11	V12	V13	V14
Voltage	2.8-3.0 V	3.0-3.2 V	3.2-3.4 V	3.4-3.6 V	3.6-3.8 V	3.8-4.0 V	4.0-4.2 V	4.2-4.4 V

Important Notes:

1. All ranks will be included per delivery; rank ratio will be based on the dice distribution.
2. No tolerance in the measurement of luminous flux.
3. Tolerance of measurement of dominant wavelength is ±1 nm.
4. Tolerance of measurement of V_F is ±0.05 V.
5. Packaging methods are available for selection; please refer to the "Cree LED Lamp Packaging Standard" document.
6. Please refer to the "Cree LED Lamp Reliability Test Standards" document for reliability test conditions.
7. Please refer to the "Cree LED Lamp Soldering & Handling" document for information about how to use this LED product safely.

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Graphs

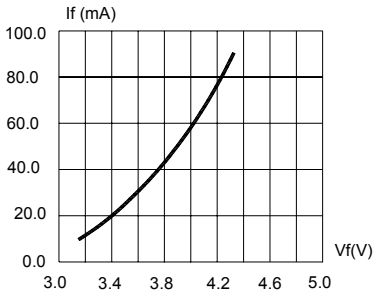

FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

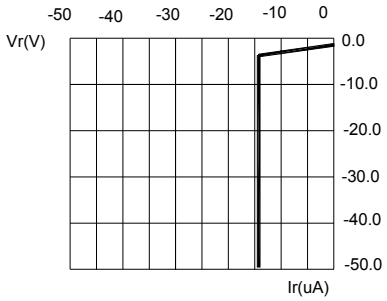

FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

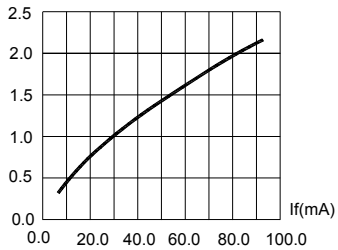

FIG.3 RELATIVE LUMINOUS FLUX VS. FORWARD CURRENT

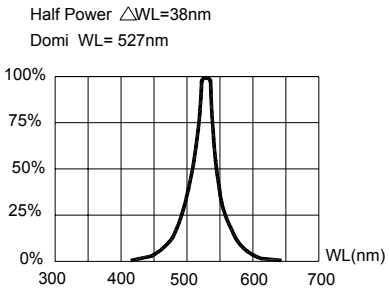

FIG.4 RELATIVE LUMINOUS FLUX VS. WAVELENGTH.

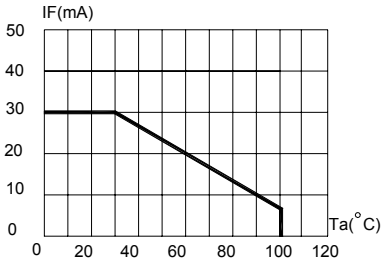

FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=120°C)

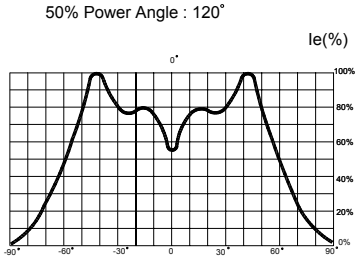

FIG.6 FAR FIELD PATTERN

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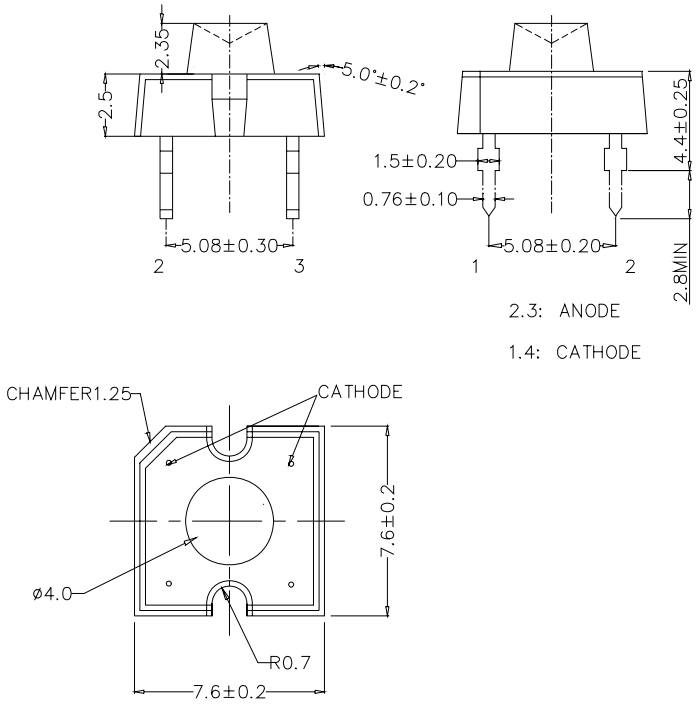
Mechanical Dimensions

All dimensions are in mm. Tolerance is ±0.25 mm unless otherwise noted.

An epoxy meniscus may extend about 1.5 mm down the leads.

Burr around bottom of epoxy may be 0.5 mm max.



Notes

RoHS Compliance

The levels of environmentally sensitive, persistent biologically toxic (PBT), persistent organic pollutants (POP), or otherwise restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), as amended through April 21, 2006.

Vision Advisory Claim

Users should be cautioned not to stare at the light of this LED product. The bright light can damage the eye.

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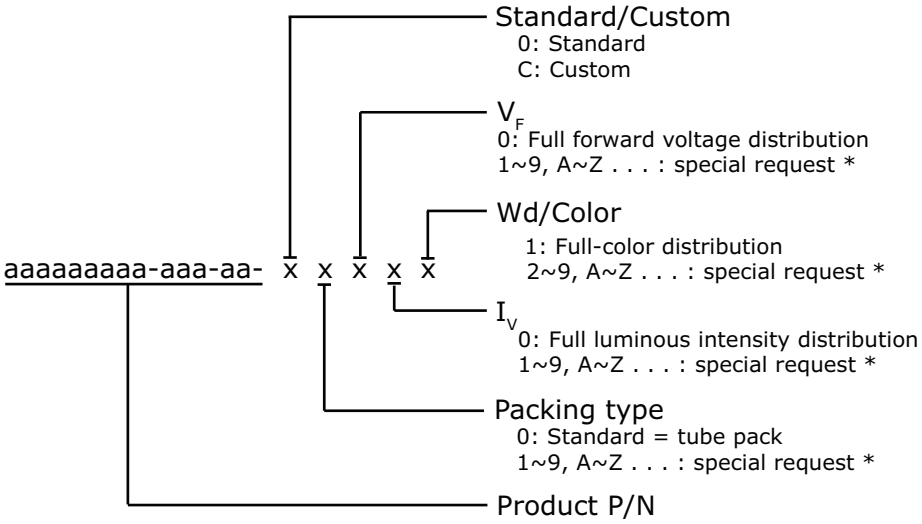
Kit Number System

Cree LED lamps are tested and sorted into performance bins. A bin is specified by ranges of color, forward voltage, and brightness. Sorted LEDs are packaged for shipping in various convenient options. Please refer to the "Cree LED Lamp Packaging Standard" document for more information about shipping and packaging options.

Cree LEDs are sold by order codes in combinations of bins called kits. Order codes are configured in the following manner:


aaaaaaaaa-aaa-aa- x x x x x
Standard/Custom
0: Standard
C: Custom
V_F
0: Full forward voltage distribution
1~9, A~Z . . . : special request *
Wd/Color
1: Full-color distribution
2~9, A~Z . . . : special request *
I_V
0: Full luminous intensity distribution
1~9, A~Z . . . : special request *
Packing type
0: Standard = tube pack
1~9, A~Z . . . : special request *
Product P/N

* Contact your Cree sales representative for ordering information.

Standard Available Kits*

Kit Number	Description
LP379PPG1-C0G-03-00001	P4 120 Pure Green 527nm, FULL RANK, Tube Pack

* Please contact your Cree representative about the availability of non-standard kits.

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